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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,764	03/03/2004	Norikatsu Takaura	NIT-416	5129
24956 75	590 06/09/2005		EXAMINER	
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.			HO, TU TU V	
1800 DIAGON SUITE 370	AL ROAD		ART UNIT	PAPER NUMBER
ALEXANDRIA	A, VA 22314		2818	

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		09	/
	Application No.	Applicant(s)	
	10/790,764	TAKAURA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tu-Tu Ho	2818	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a ply within the statutory minimum of the d will apply and will expire SIX (6) MC ute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 03	<u>March 2004</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.		
3) Since this application is in condition for allow	•	• •	
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-18 are subject to restriction and/or	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) according a deposition of the deposition and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the	ccepted or b) objected to ne drawing(s) be held in abeya ection is required if the drawin	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)	

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DETAILED ACTION

Election/ Restriction

Claims 1-18 are pending in this application.

- 1. The claims are directed to the following patently distinct species of the claimed invention:
- **Species I.** Claims 1-5, 10-15, and 18, directed to a phase change memory device having a dual-layer phase change materials;
- Species Π. Claims 1-9 and 16-18, directed to a phase change materials having a two-stage plug.
- 2. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-5 and 18 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims (if different from the above listing) readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct. applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 28, 2005